

ABSTRACT OF THE DISCLOSURE

5 The invention includes a method of enhancing
the chloride ion transport function of a mutant CFTR
polypeptide in epithelial cells in a mammal. In a
preferred embodiment, the mammal is a human patient
afflicted with cystic fibrosis (CF). Specifically, the
method comprises administering to a patient a
therapeutically effective amount of a first compound to
10 enhance trafficking of a mutant CFTR polypeptide to the
surface of epithelial cells in the patient, and a
therapeutically effective amount of a second compound to
increase the chloride ion transport activity of a mutant
CFTR polypeptide at the surface of epithelial cells,
15 whereby, the chloride ion transport function of the
mutant CFTR polypeptide is enhanced. The invention also
includes a method of treating CF in a patient, wherein a
mutant CFTR polypeptide is present in an epithelial cell
in a patient with CF. Compositions for treating CF in a
20 patient are also included, as well as kits for
practicing the method of the invention.